Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Honors Geometry**

**Factoring**

**Due: Wednesday, May 6th**

*Directions: Choose* ***one*** *problem set to complete. You can choose either Problem Set A, Problem Set, B or Problem Set C. Each problem set is worth* ***10 points****, but they vary in the number of problems and difficulty. You cannot mix problem sets – for example, you cannot do 3 problems from A, 3 problems from B and 4 problems from C.*

*All work must be clearly shown on the back of this paper or on a separate sheet. No work = LaSalle.*

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| --- | --- |
| **Problem Set A**  Complete the factored form:  Factor each trinomial completely. | **Problem Set B**  Factor each trinomial completely. Don’t forget to factor out the GCF first.   1. a. Draw a rectangle that has a width of and a length of .   b. Write the perimeter of the rectangle as a simplified polynomial.  c. Factor out the greatest common factor.  d. Factor the trinomial. |
| **Problem Set C**   1. An athlete throws a discus from an initial height of 6 feet and with an initial velocity of 46 feet per second. The equation models the height of the discus as a function of time (in seconds).    1. What is the maximum height the discuss reaches?    2. After how many seconds does the discus hit the ground? 2. Find three values of *c* that will allow you to factor the following trinomial: . Factor each of the trinomials.   *Example: c= 56, . This CANNOT be one of your three values.* | |